FIG 1A

NMOS transistor

NPN bipolar transistor

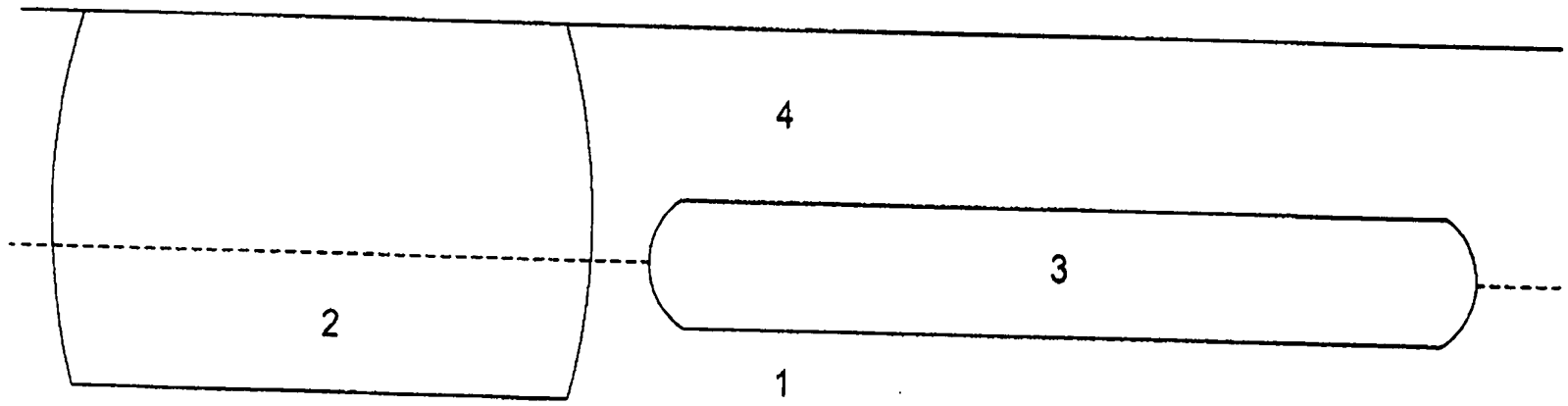


FIG 1B

vertical PNP bipolar transistor

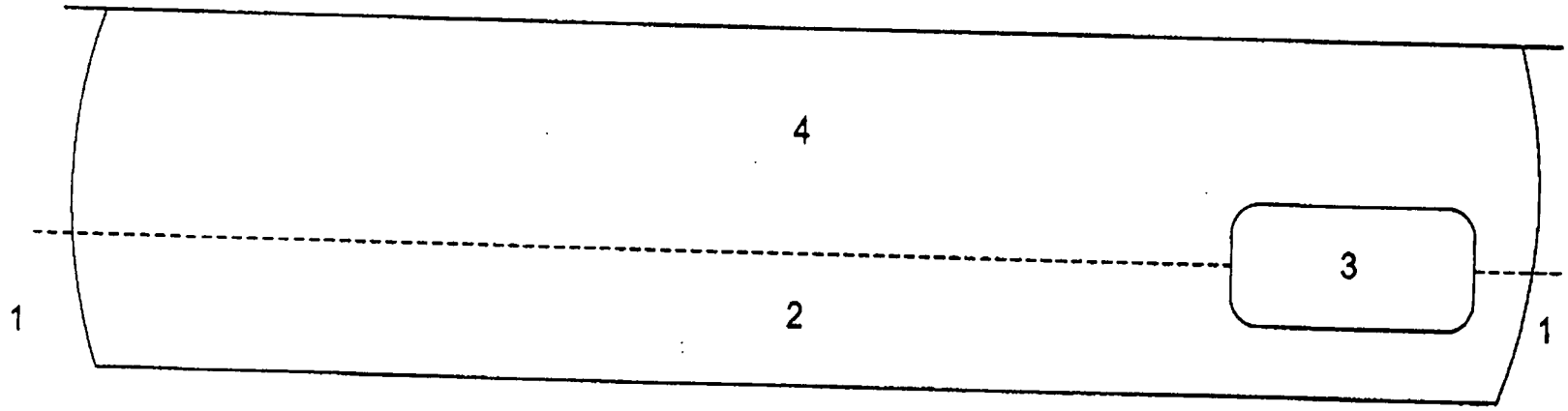


FIG 2A

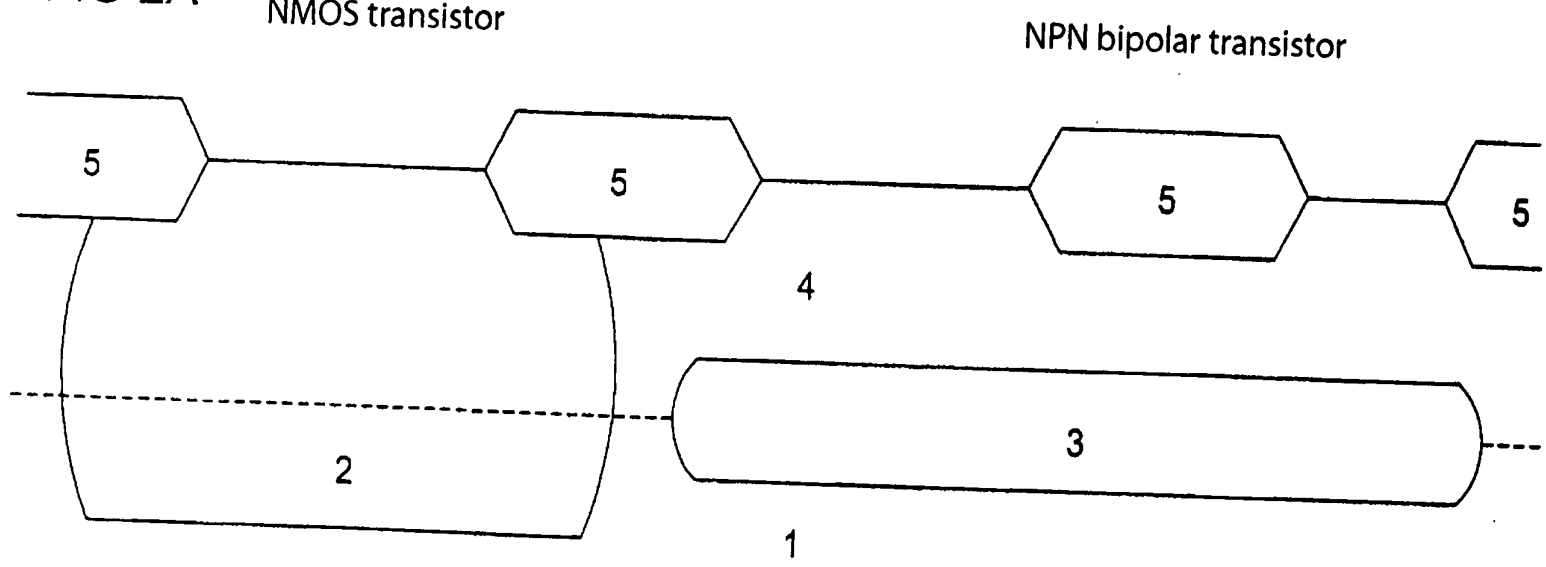

NMOS transistor
NPN bipolar transistor
5
5
5
5
4
2
3
1

FIG 2B

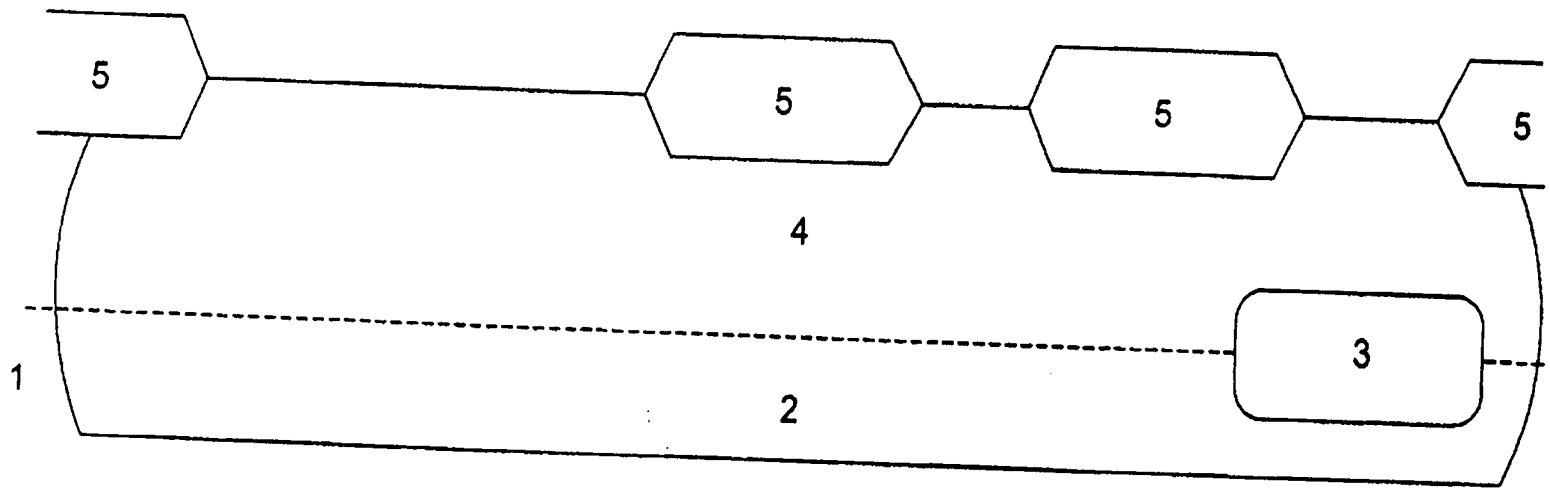

vertical PNP bipolar transistor
5
5
5
5
4
1
3
2

FIG 3A

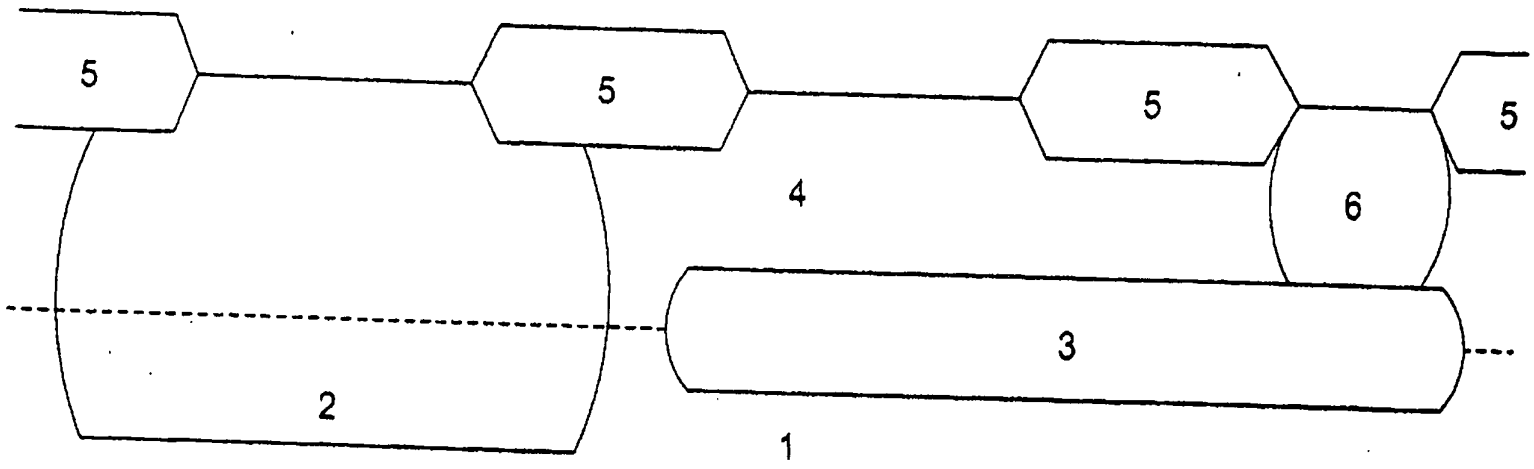

NMOS transistor
NPN bipolar transistor
5
5
5
5
4
6
3
2
1

FIG 3B

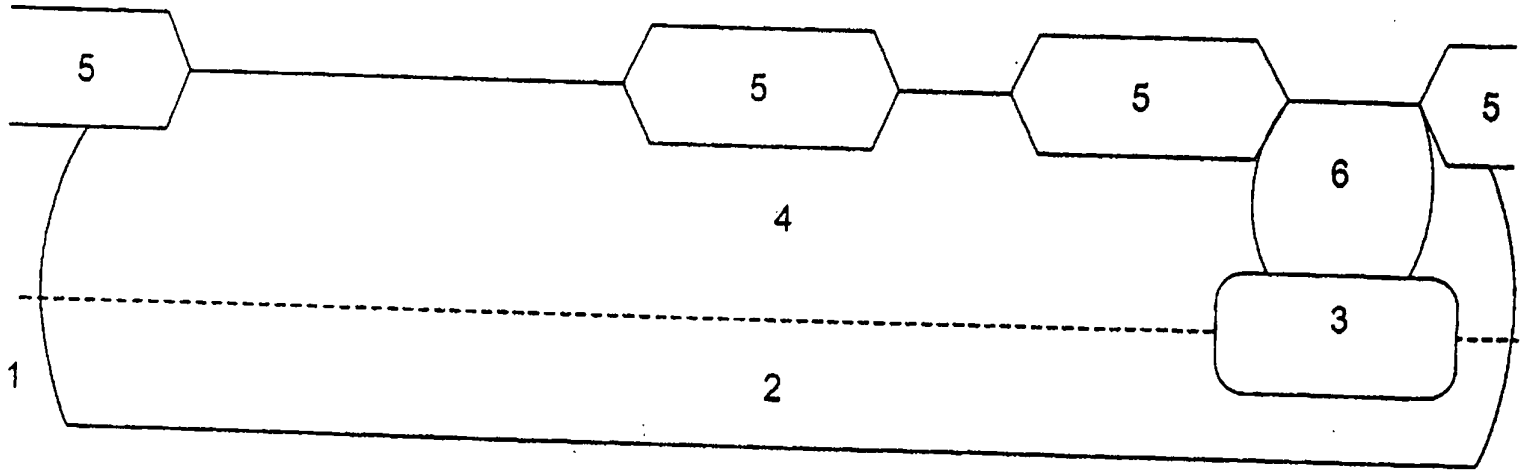

vertical PNP bipolar transistor
5
5
5
5
6
4
3
1
2

FIG 3C

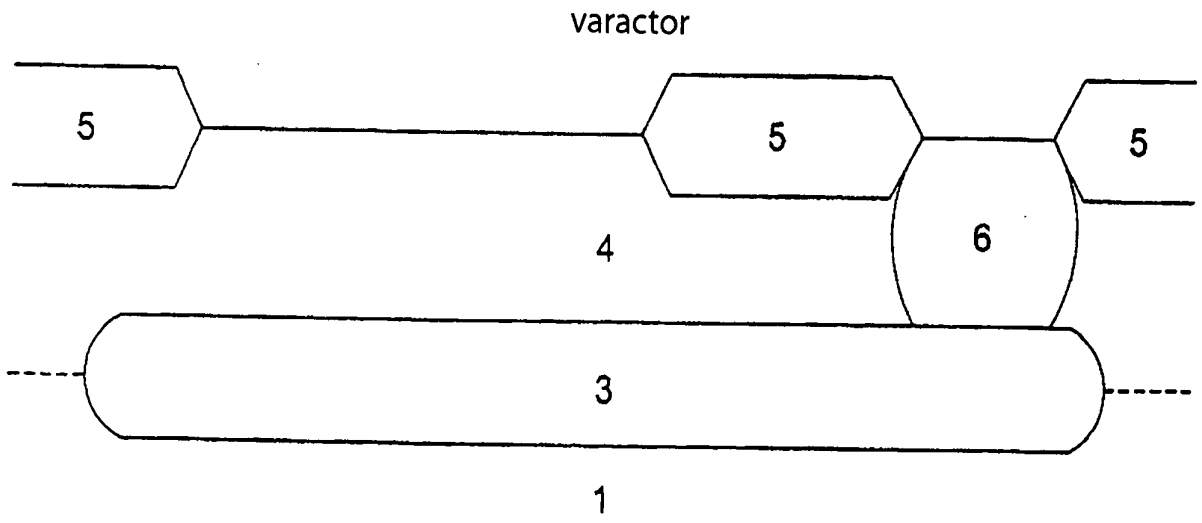


FIG 3D

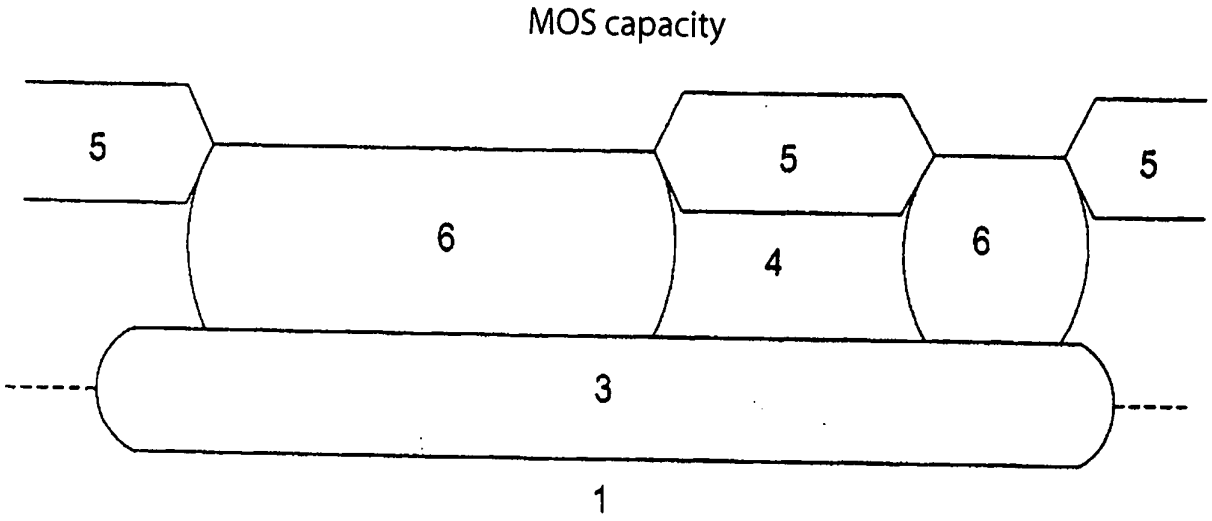


FIG 4

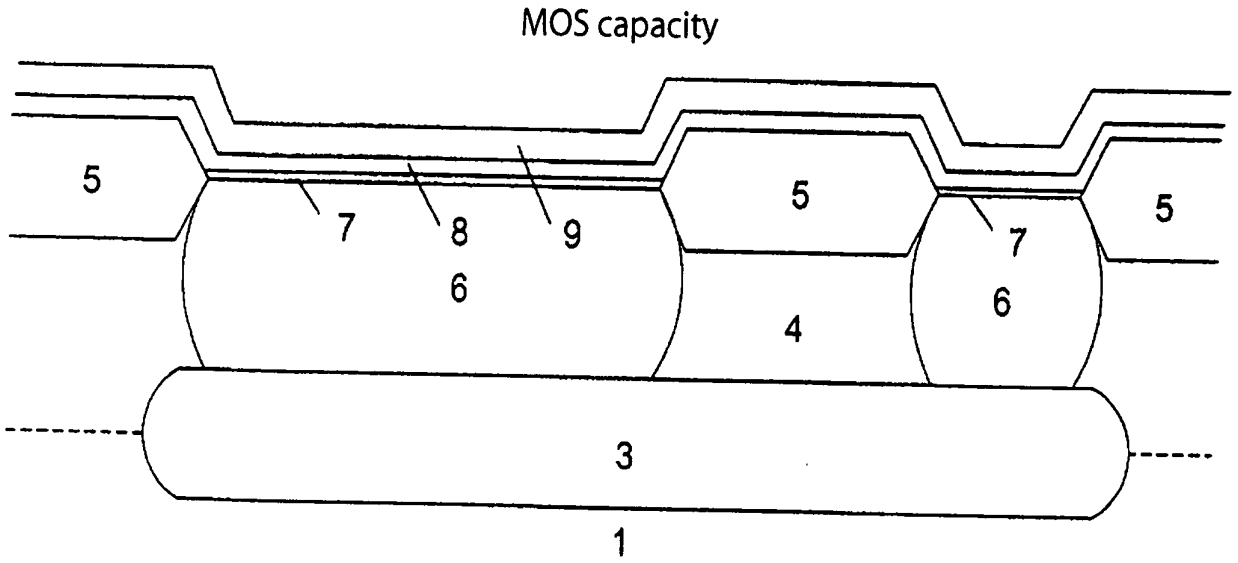


FIG 5

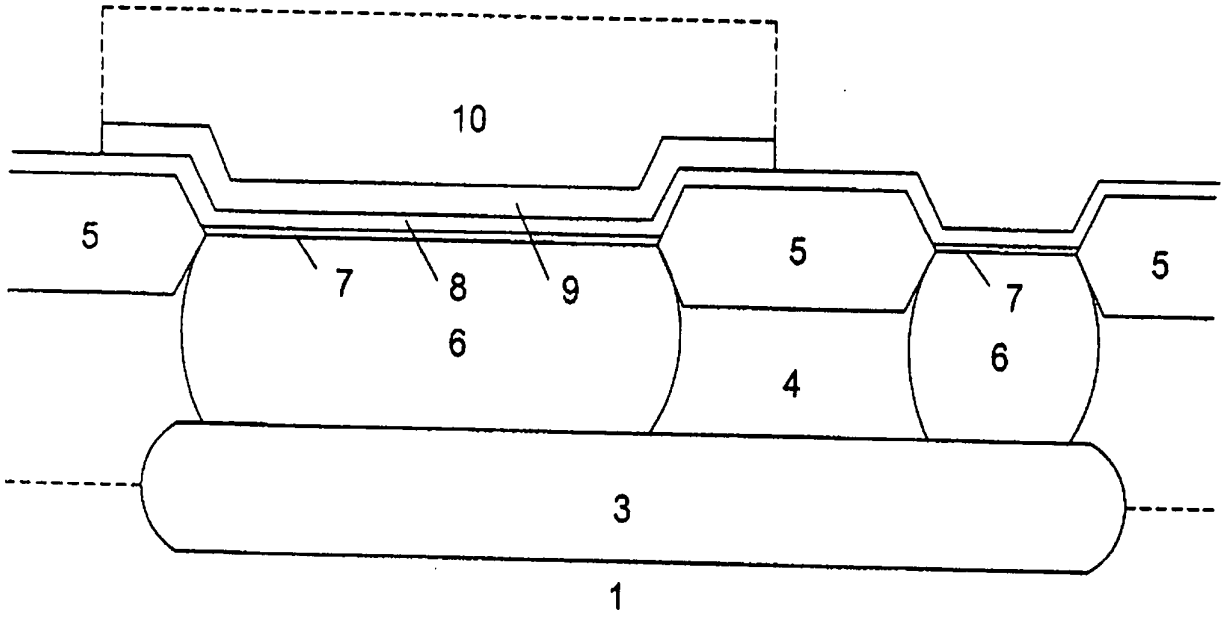


FIG 6

MOS capacity

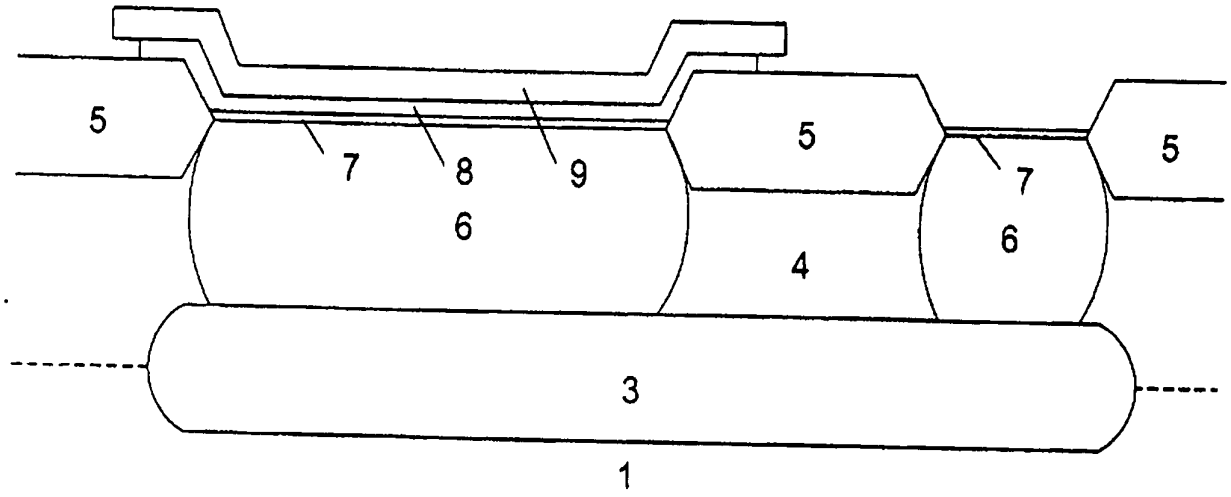


FIG 7A

vertical PNP bipolar transistor

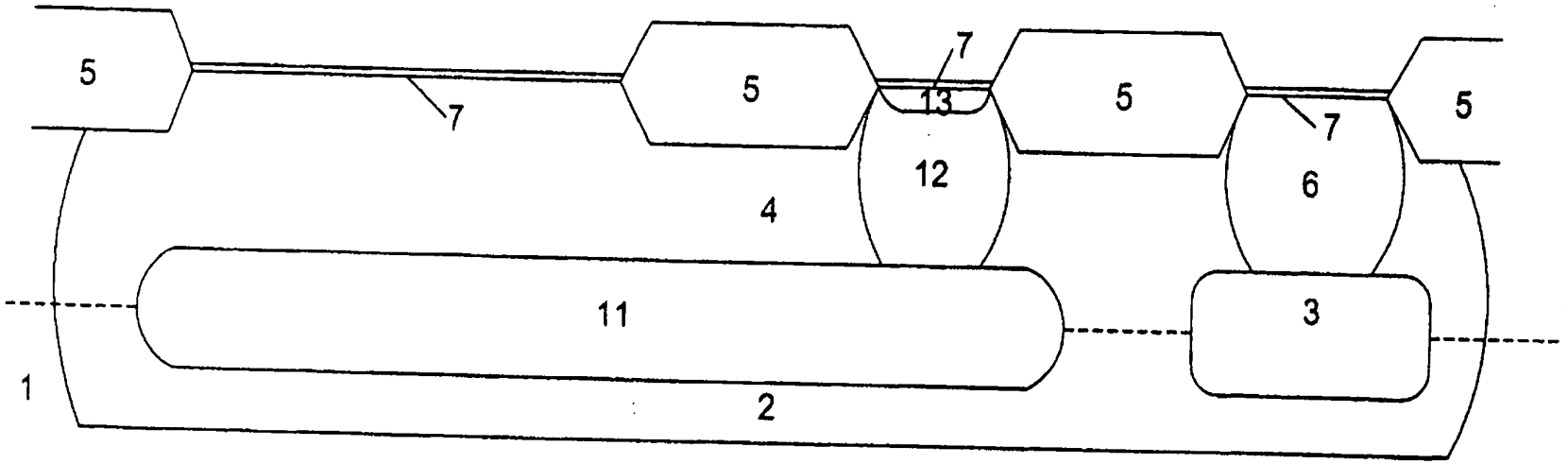


FIG 7B

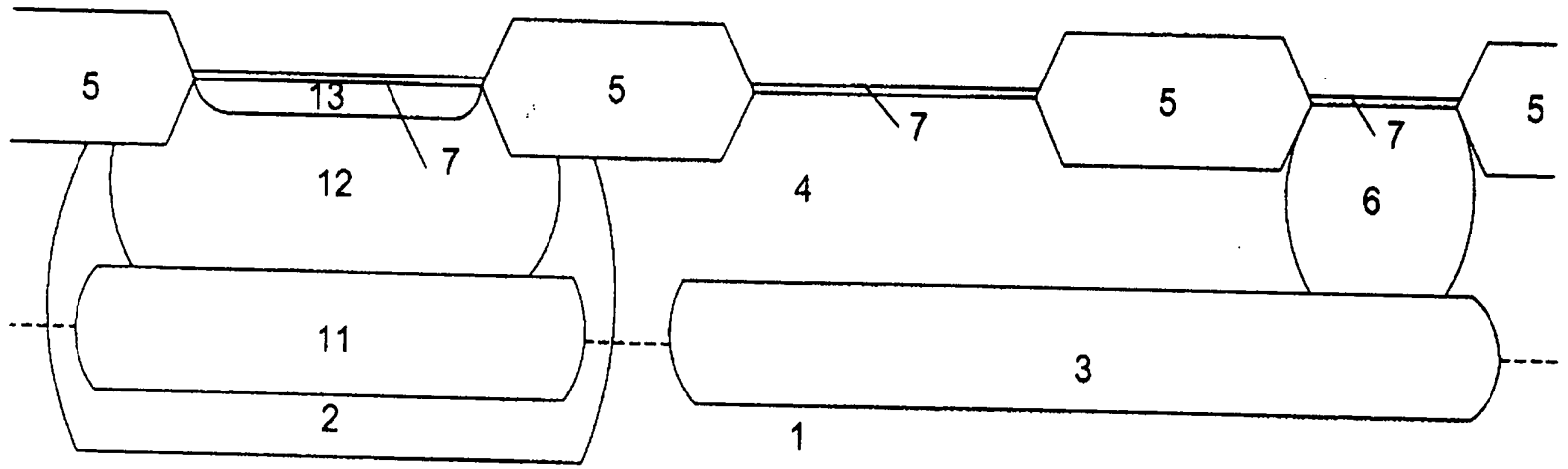

NMOS transistor
NPN bipolar transistor
5
13
7
5
7
5
7
5
12
4
6
11
3
2
1

FIG 8

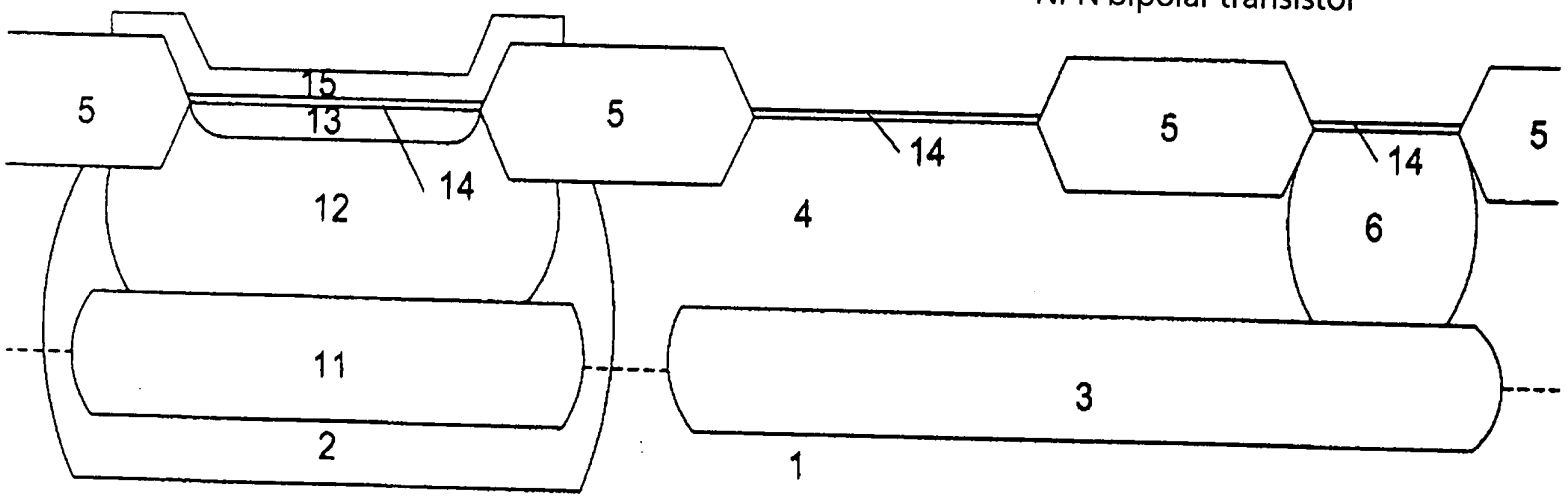

NMOS transistor
NPN bipolar transistor
15
5
13
14
5
14
5
14
5
12
4
6
11
3
2
1

FIG 9

vertical PNP bipolar transistor

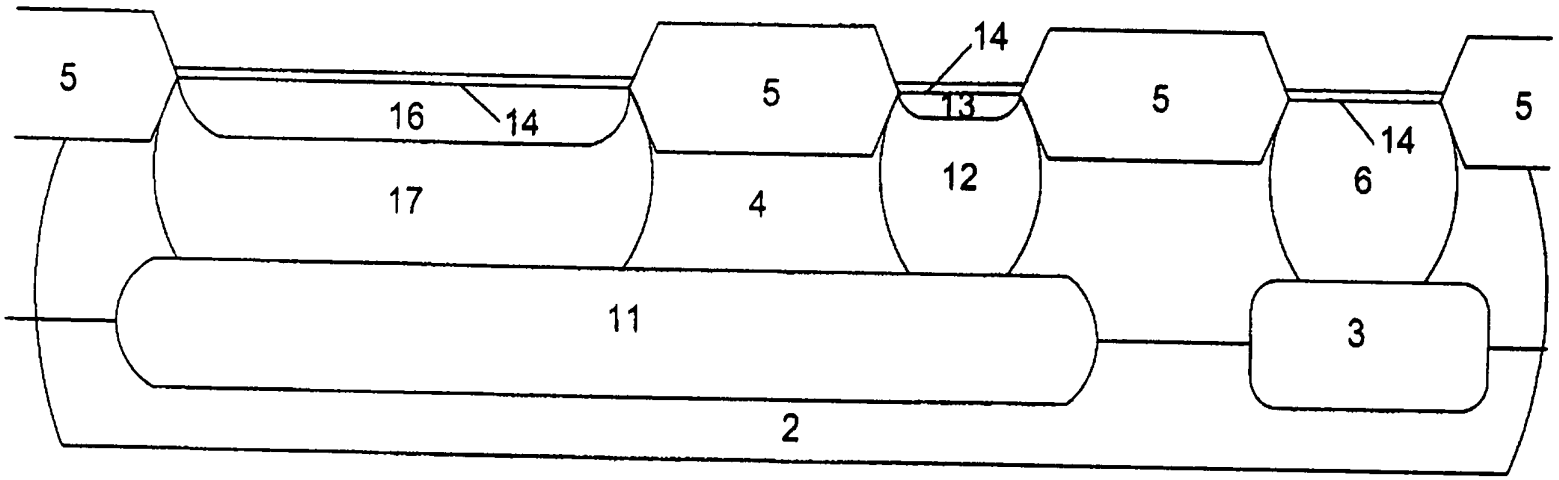


FIG 10

varactor

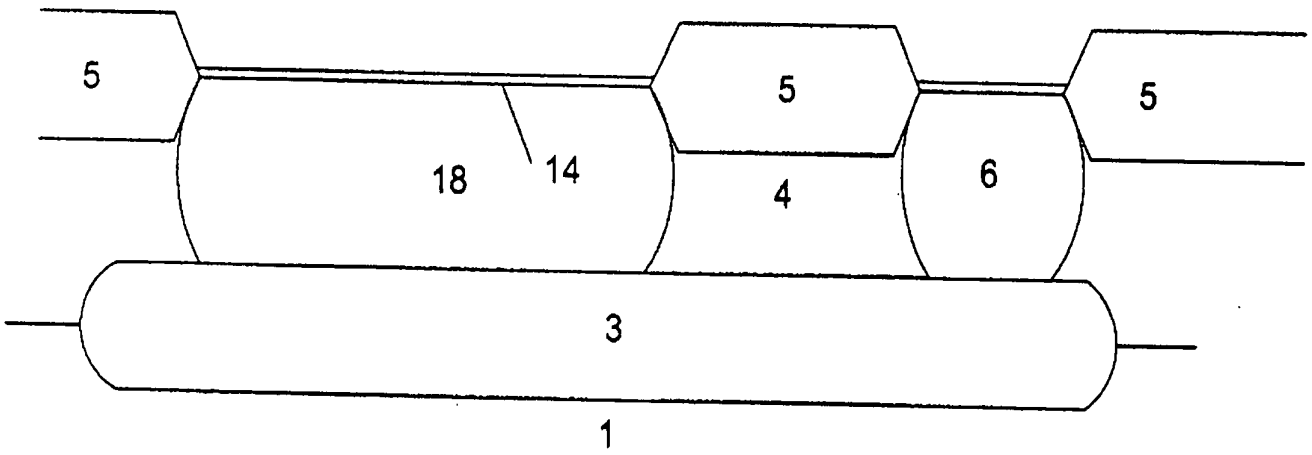


FIG 11

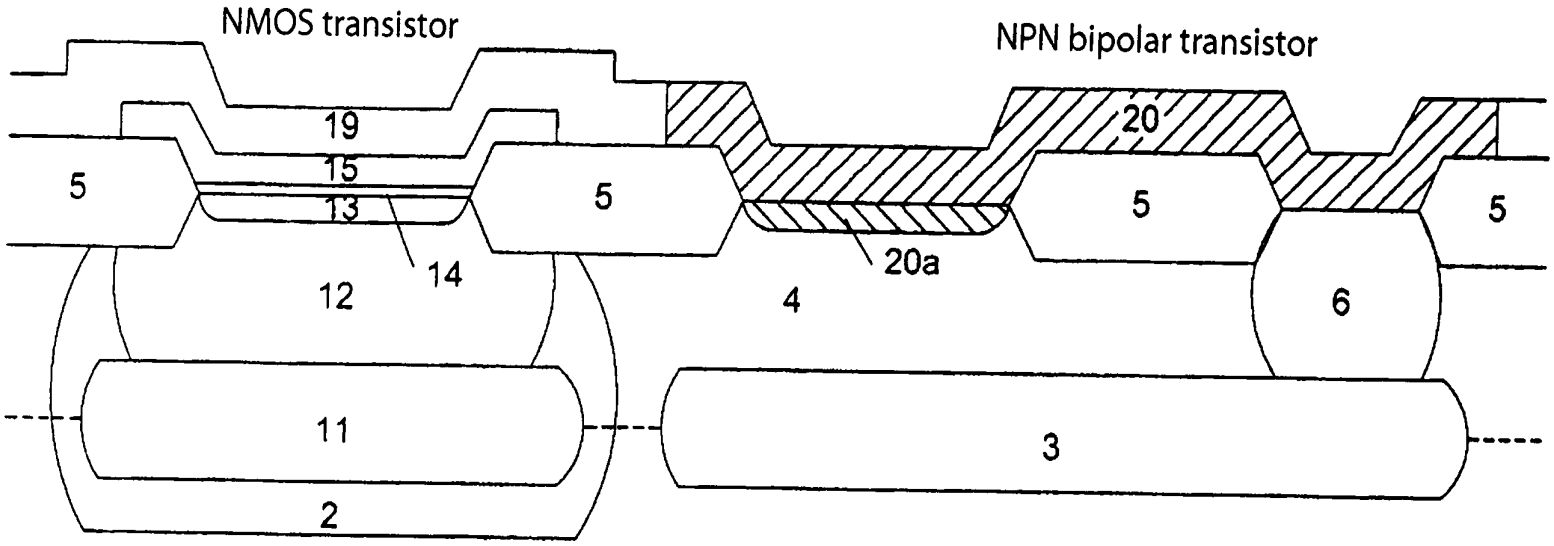

NMOS transistor
NPN bipolar transistor
19
15
13
14
20
20a
5
5
5
5
12
4
6
11
3
2
1

FIG 12

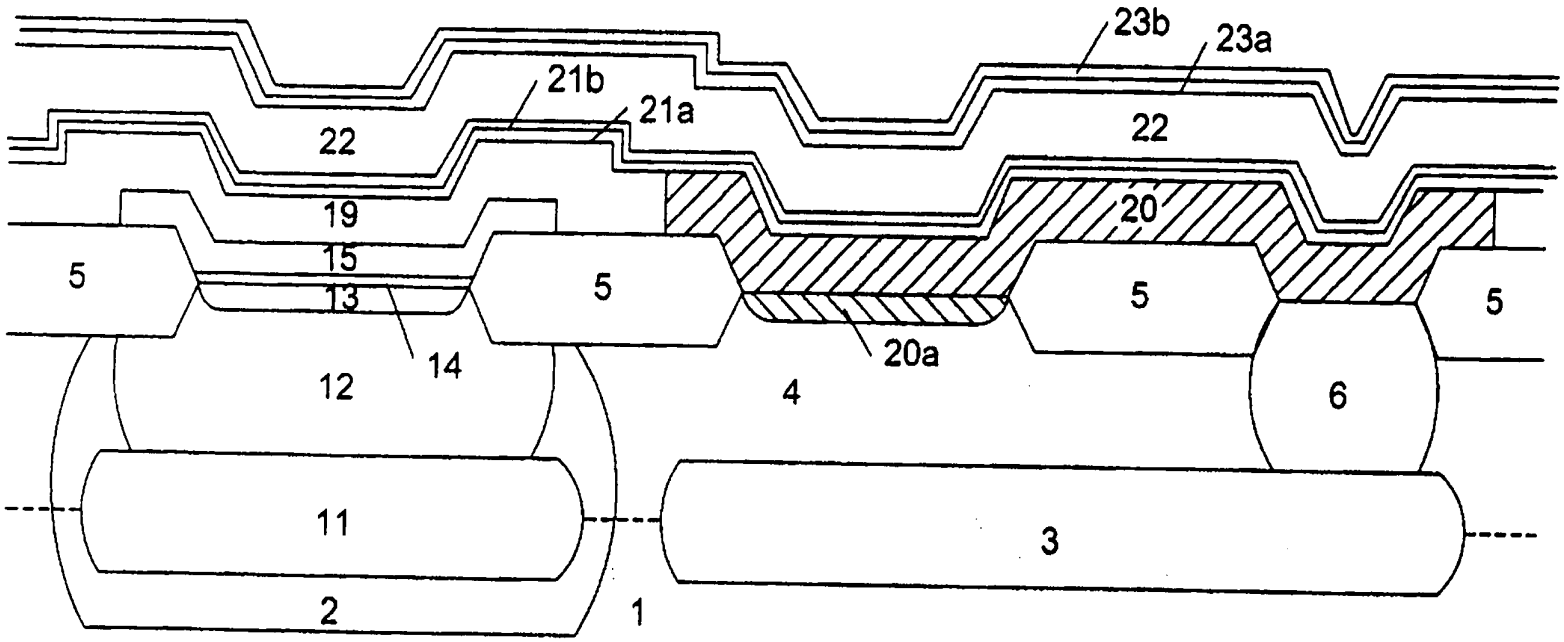

23b
23a
21b
21a
22
22
19
15
13
14
20
20a
5
5
5
5
12
4
6
11
3
2
1

FIG 13

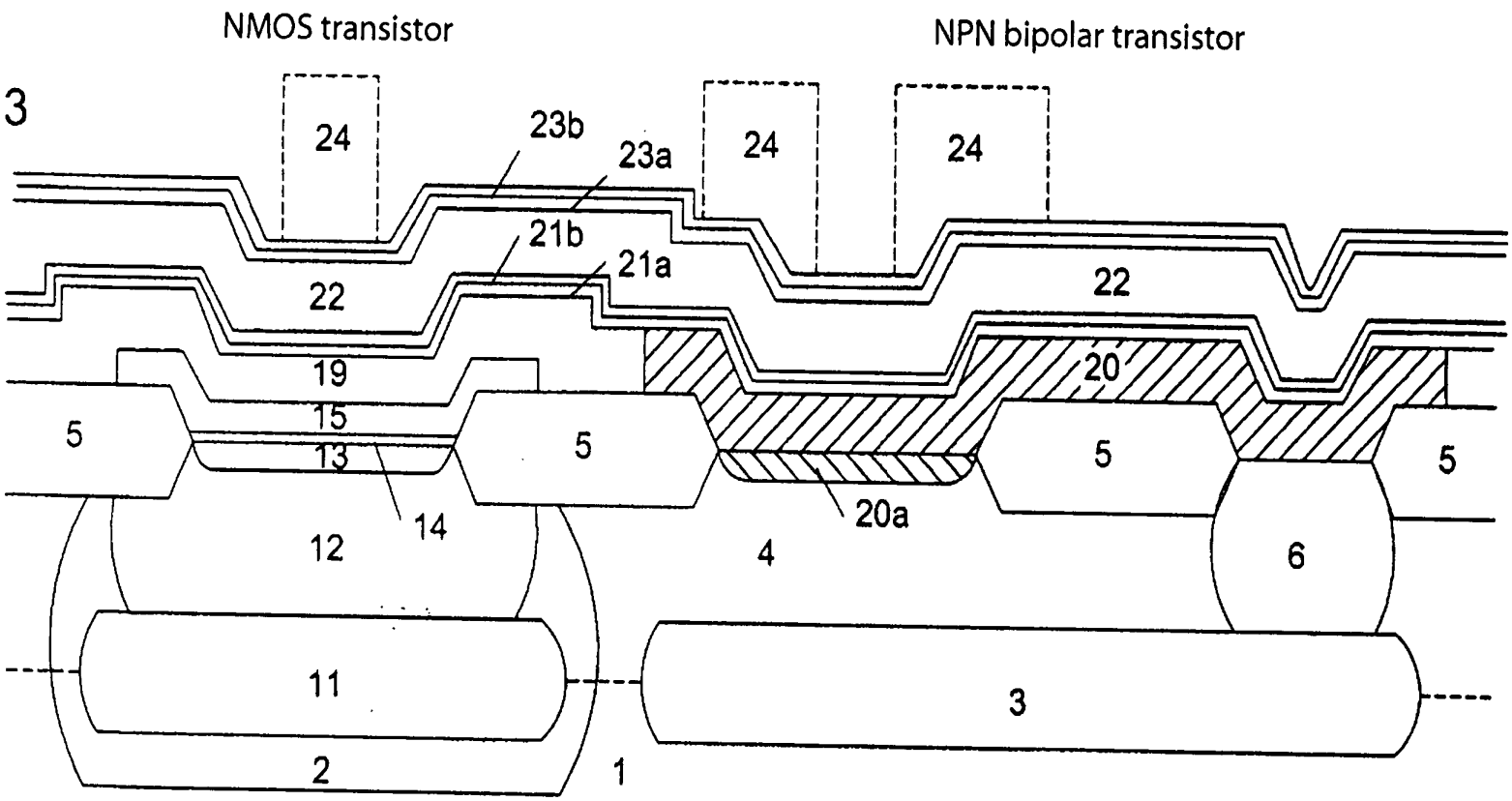

NMOS transistor
NPN bipolar transistor
24
24
24
23b
23a
21b
21a
22
22
19
20
15
13
5
5
5
5
14
20a
12
4
6
11
3
2
1

FIG 14

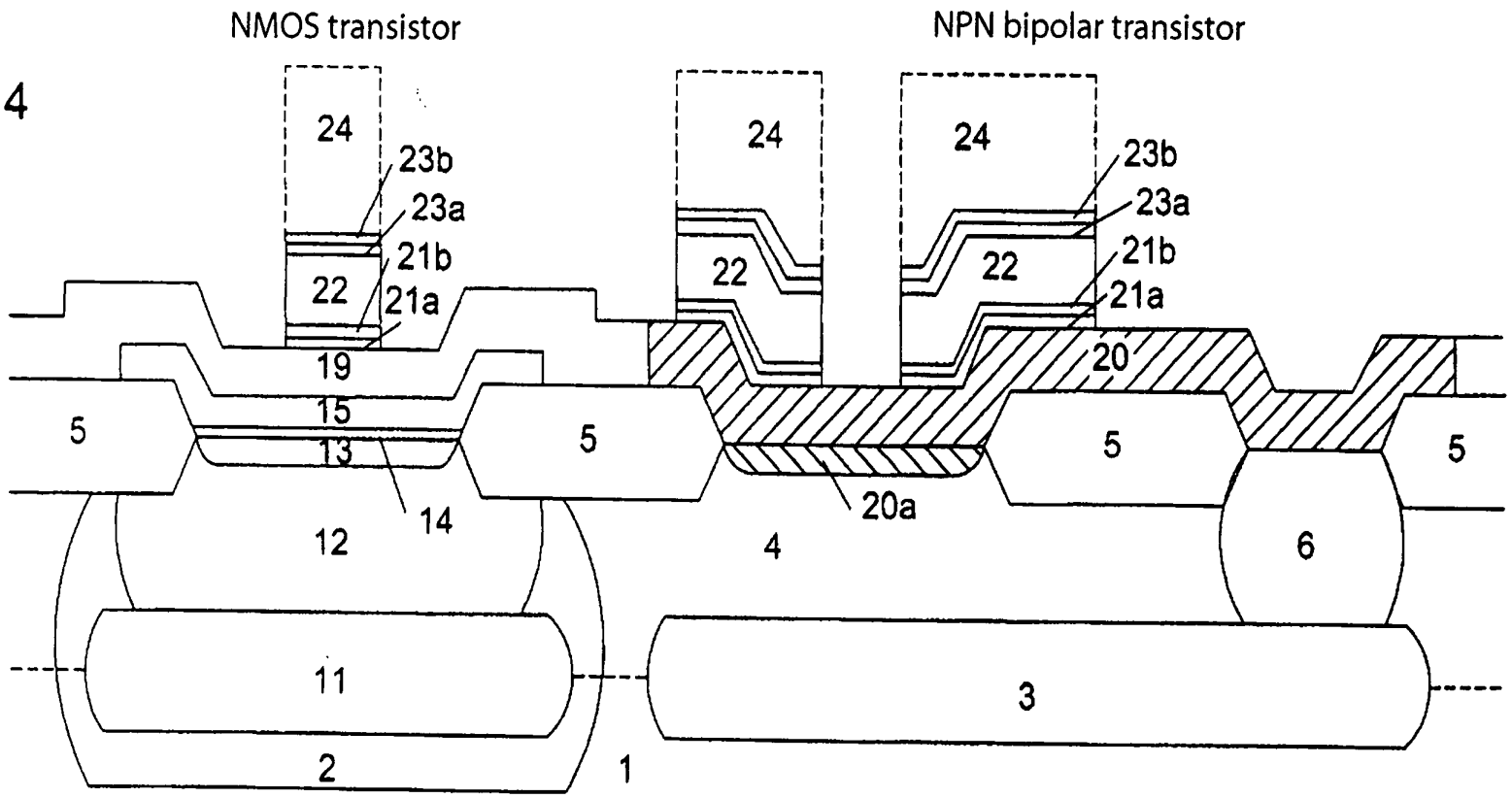

NMOS transistor
NPN bipolar transistor
24
23b
23a
21b
21a
22
19
15
13
14
12
11
2
1
5
20
20a
4
6
3

FIG 15

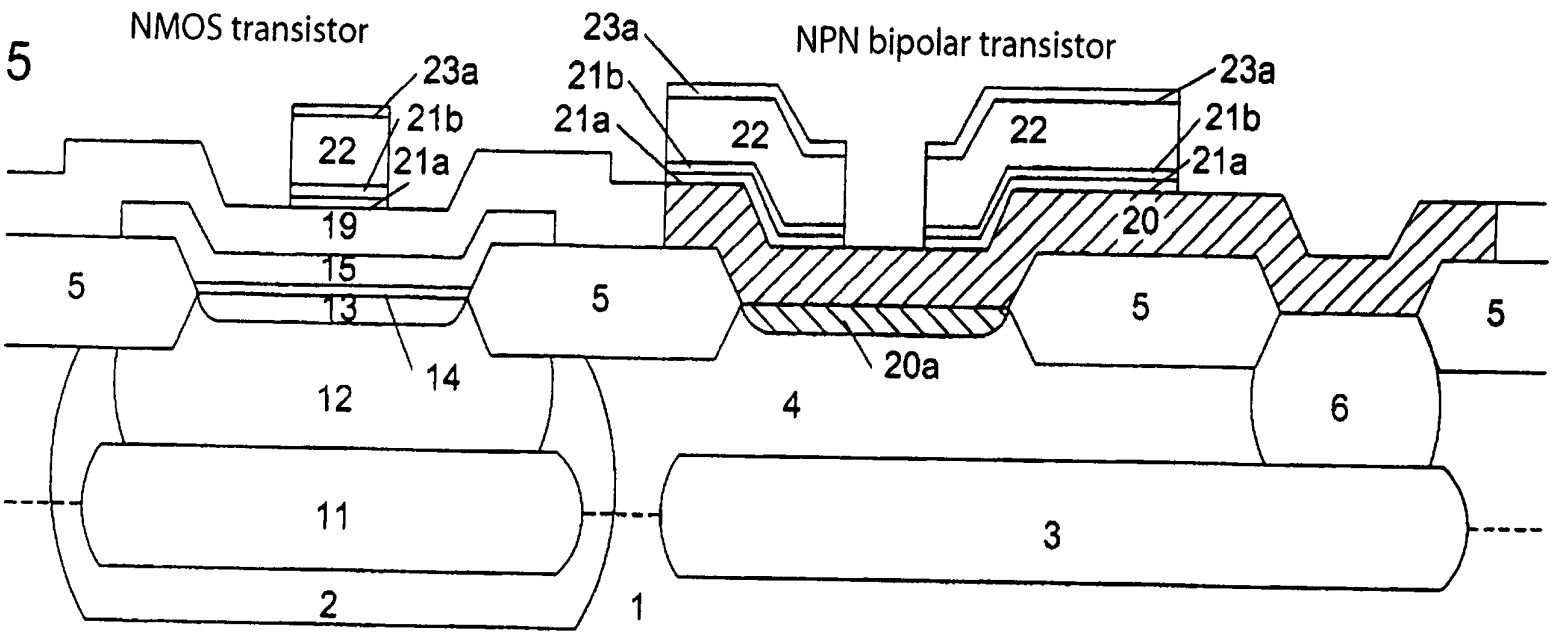

NMOS transistor
NPN bipolar transistor
23a
21b
21a
22
19
15
13
14
12
11
2
1
5
20
20a
4
6
3

FIG 16

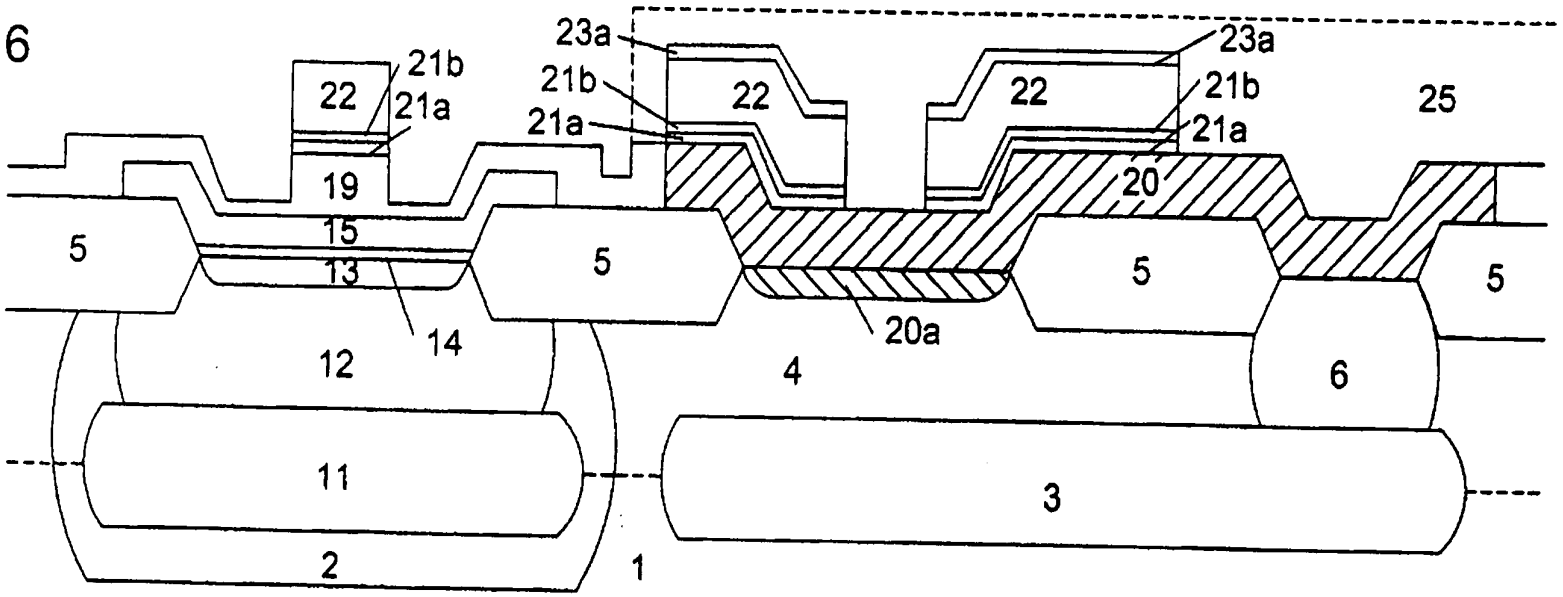

23a
21b
21a
22
19
15
13
14
12
11
2
1
5
20
20a
4
6
3
25

FIG 17

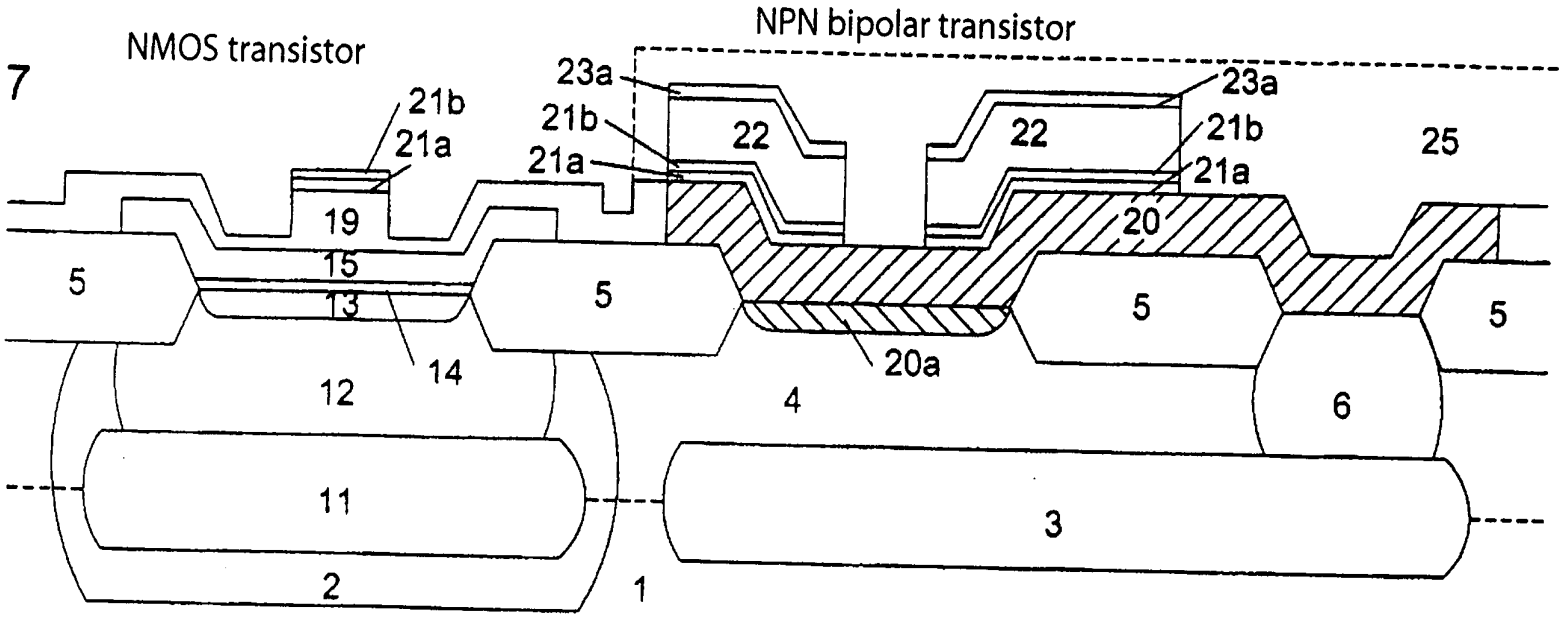


FIG 18A

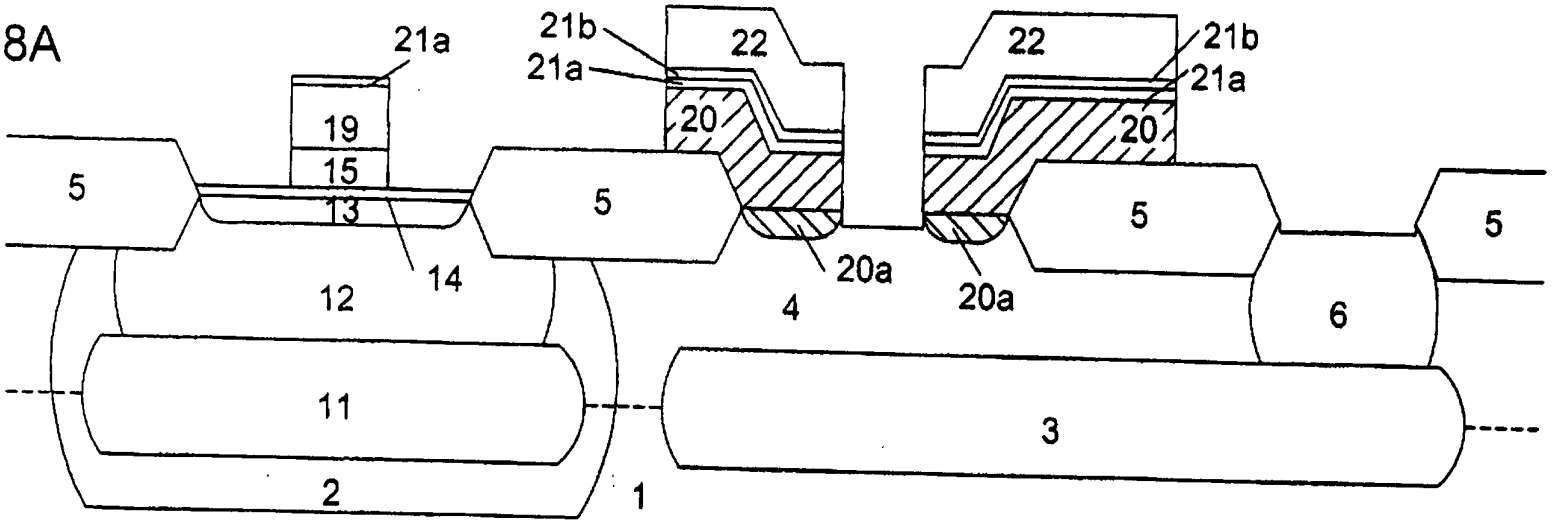


FIG 18B

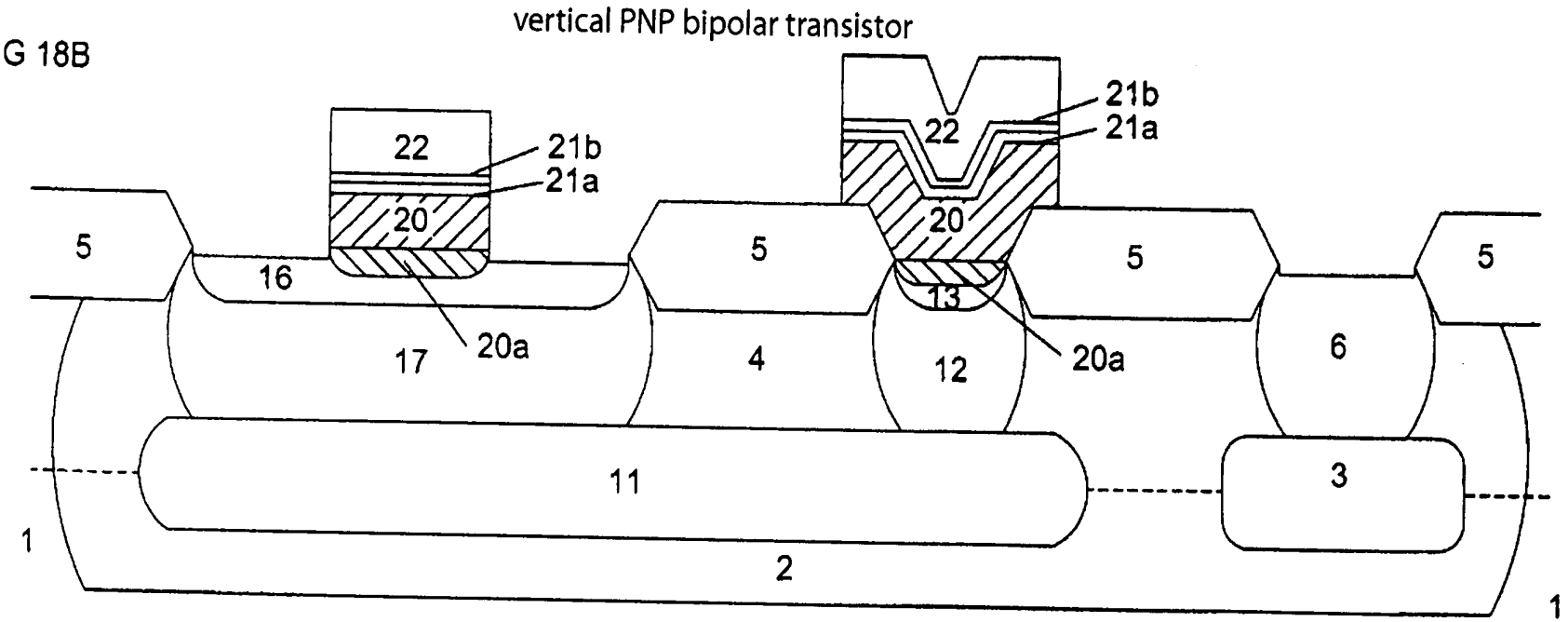


FIG 18C

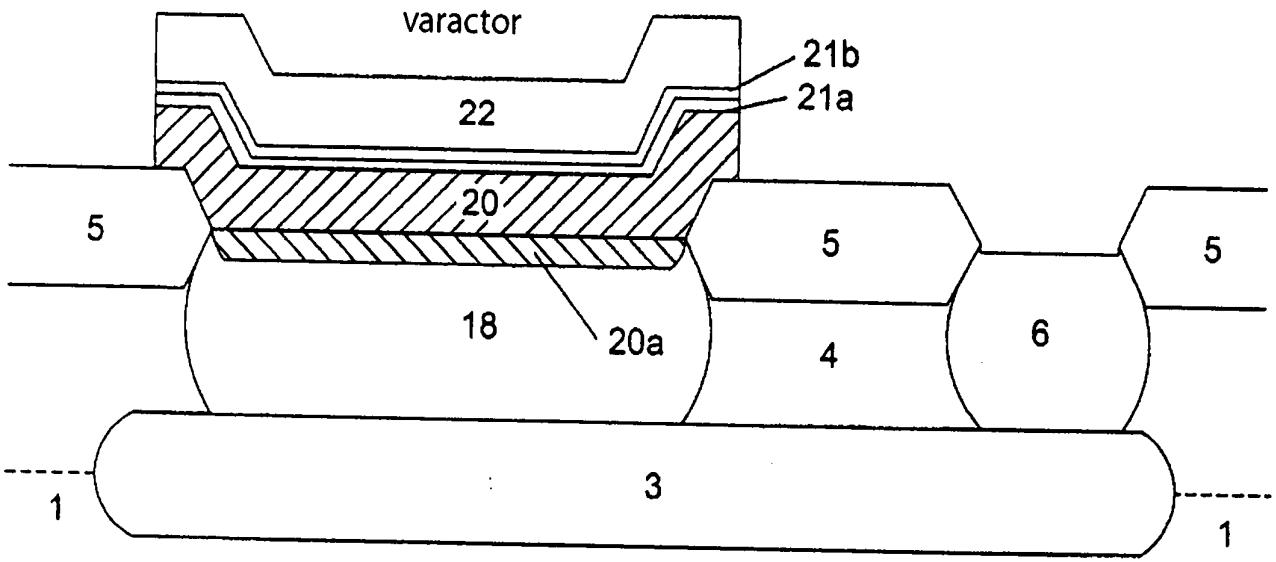


FIG 18D

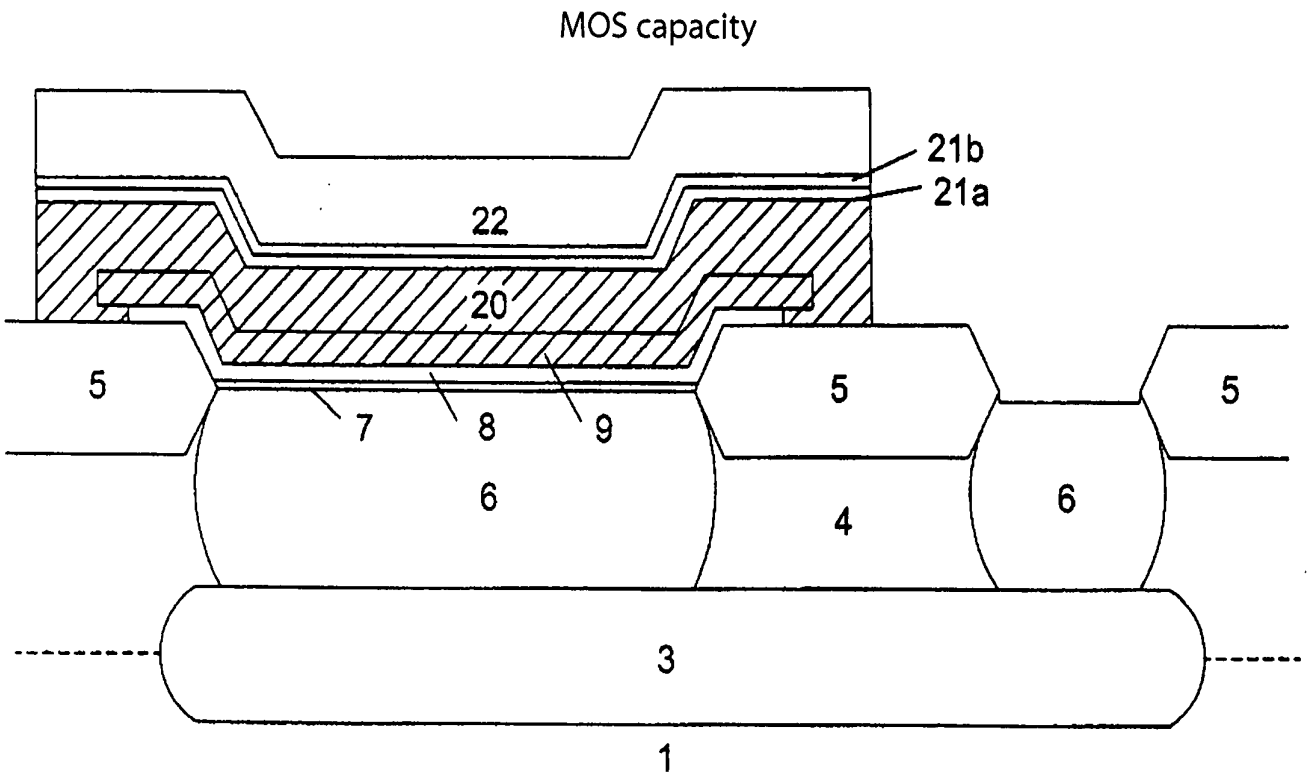


FIG 19

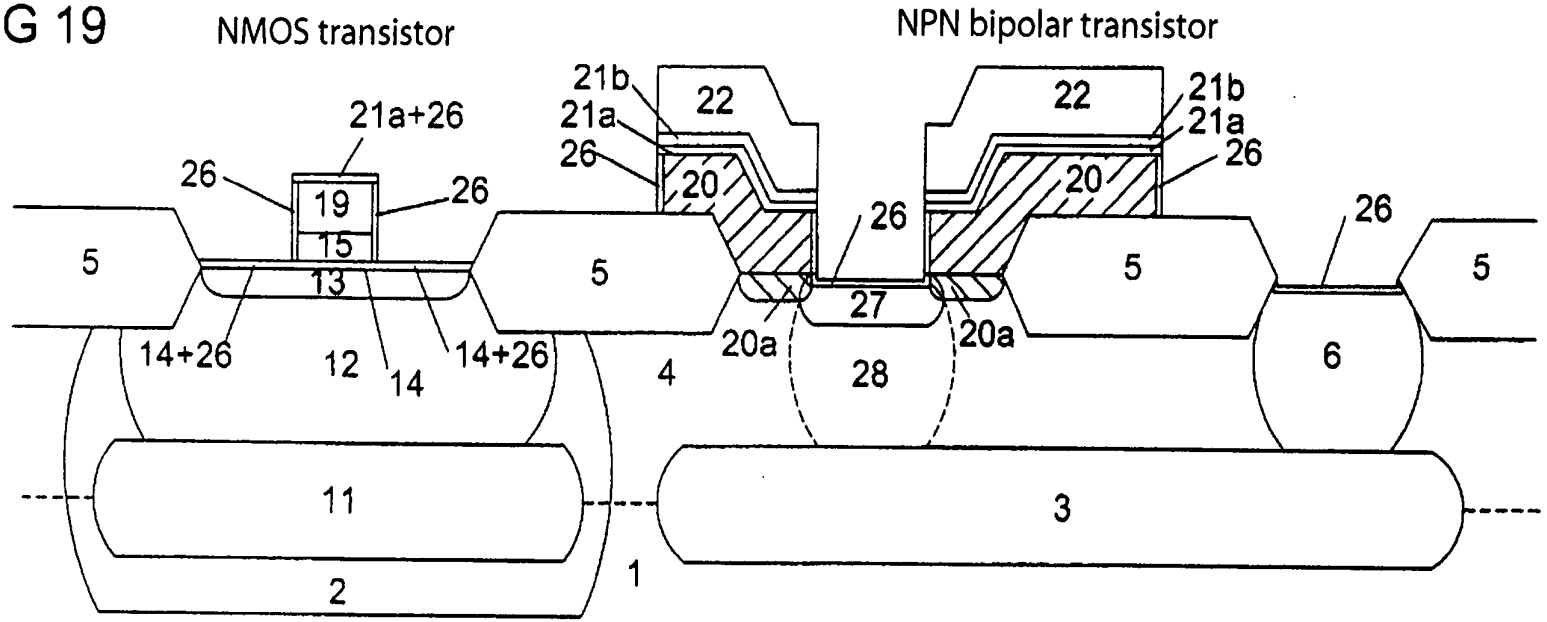

NMOS transistor
NPN bipolar transistor
21a+26
26
19
26
15
13
5
5
14+26
12
14
14+26
21b
21a
26
22
20
26
22
21b
21a
26
20
26
5
5
27
20a
20a
28
4
6
11
3
2
1

FIG 20

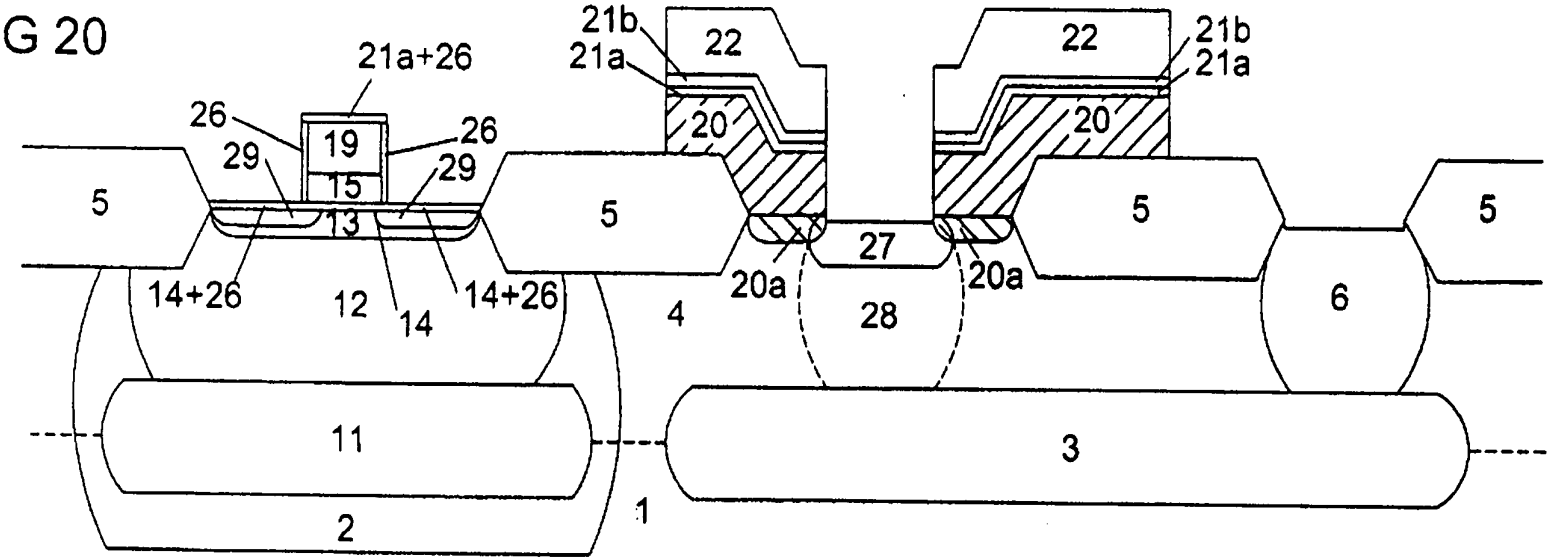

21a+26
26
19
26
29
29
15
13
5
5
14+26
12
14
14+26
21b
21a
22
20
22
21b
21a
20
5
5
27
20a
20a
28
4
6
11
3
2
1

FIG 21

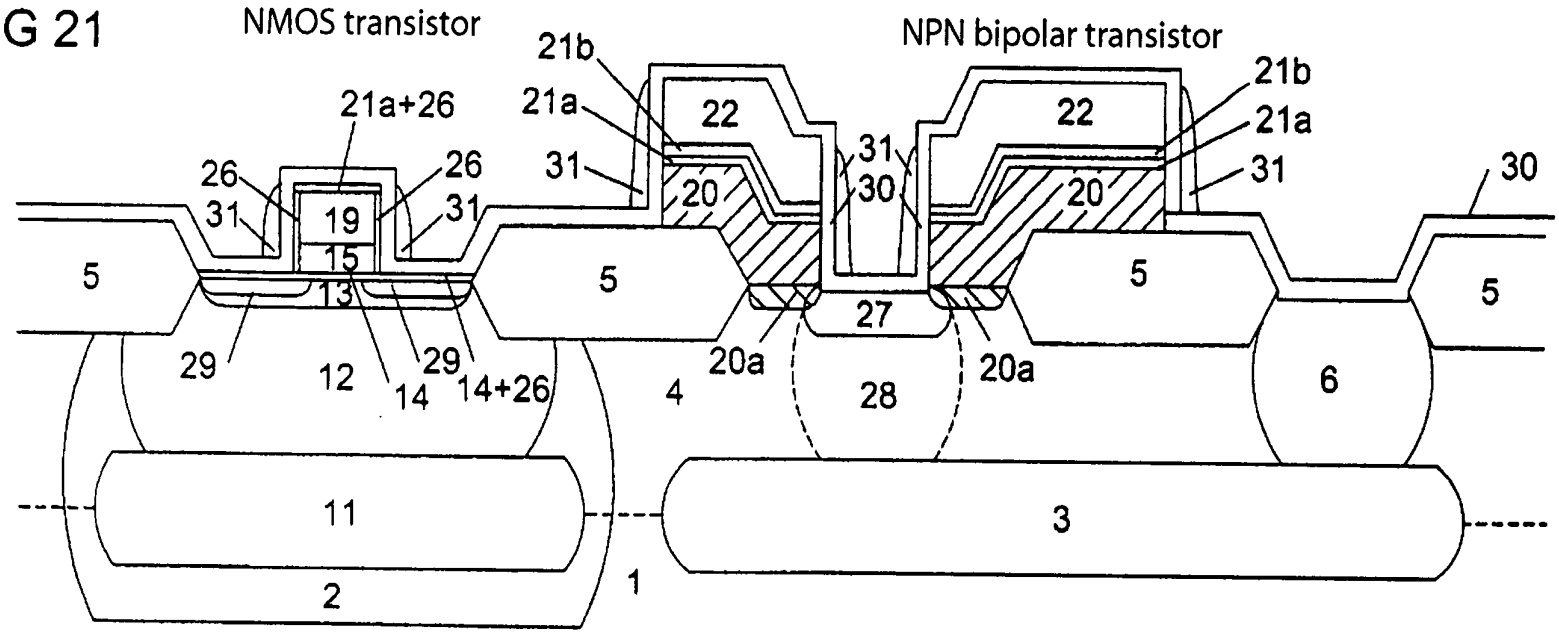

NMOS transistor
NPN bipolar transistor
21b
21a
21a+26
22
31
30
26
19
15
13
20
5
29
12
14
14+26
4
20a
27
28
6
11
3
2
1

FIG 22

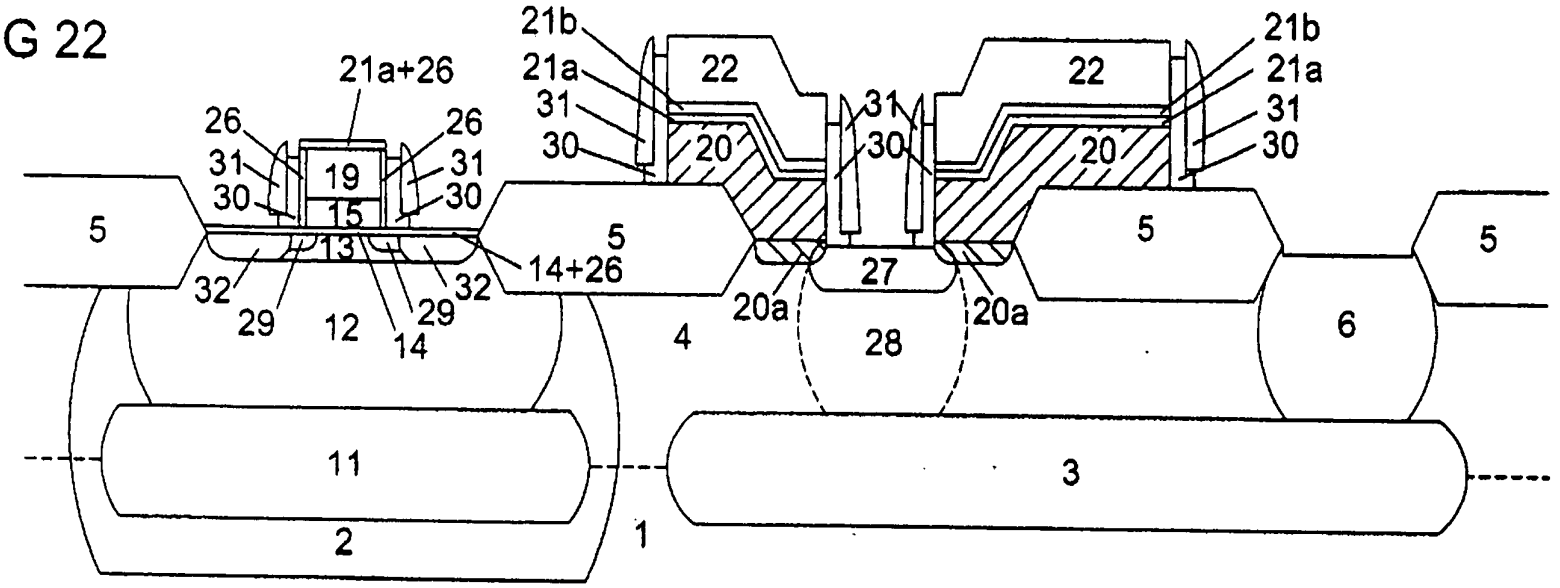

21b
21a
21a+26
22
31
30
26
19
15
13
20
5
32
29
12
14
14+26
4
20a
27
28
6
11
3
2
1

FIG 23

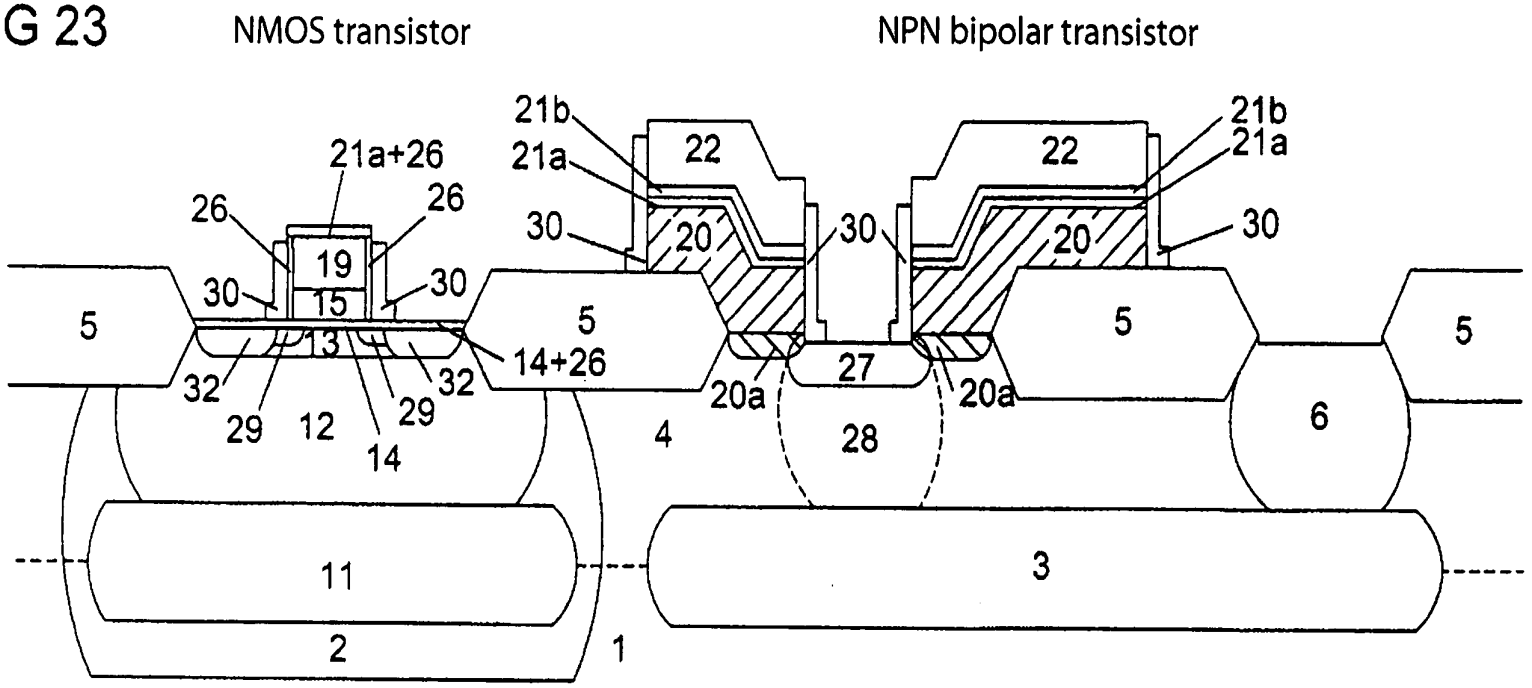

NMOS transistor
NPN bipolar transistor
21b
21a
22
21a+26
26
19
15
13
30
20
5
14+26
32
29
12
14
4
27
20a
28
6
11
3
2
1

FIG 24A

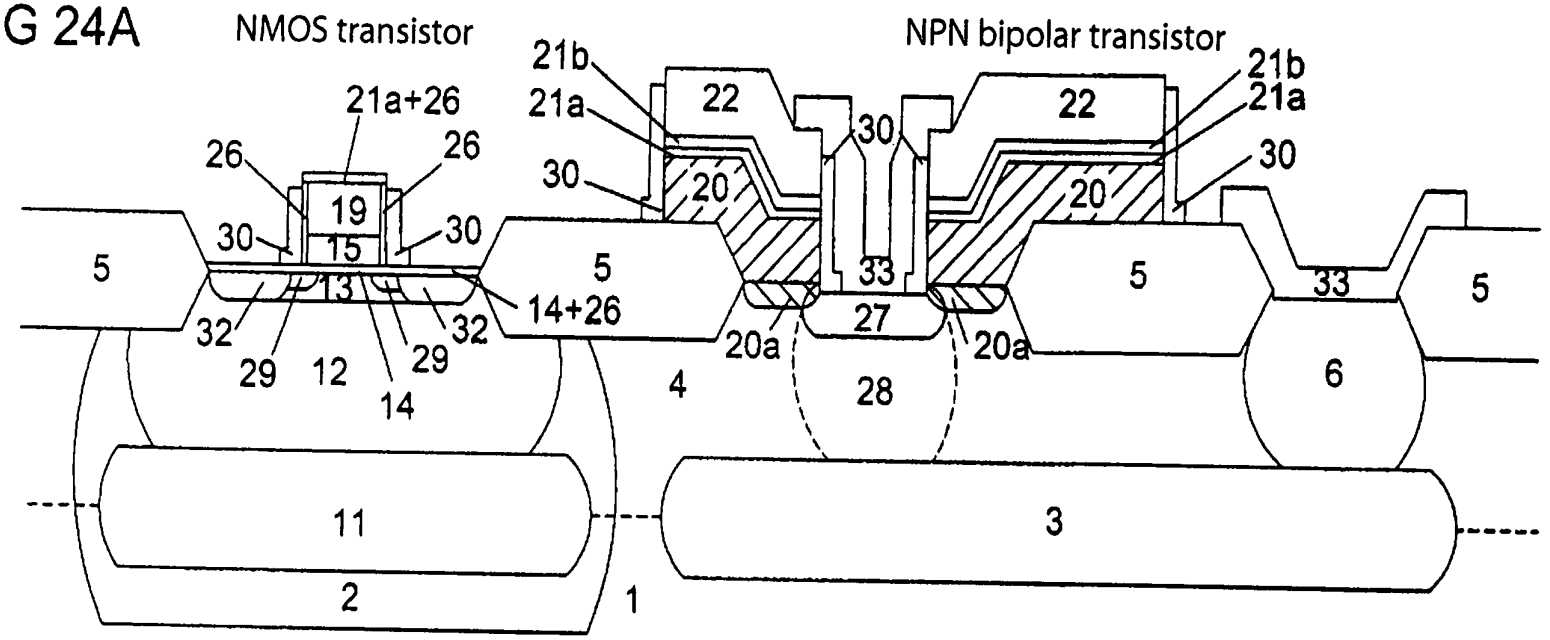


FIG 24B

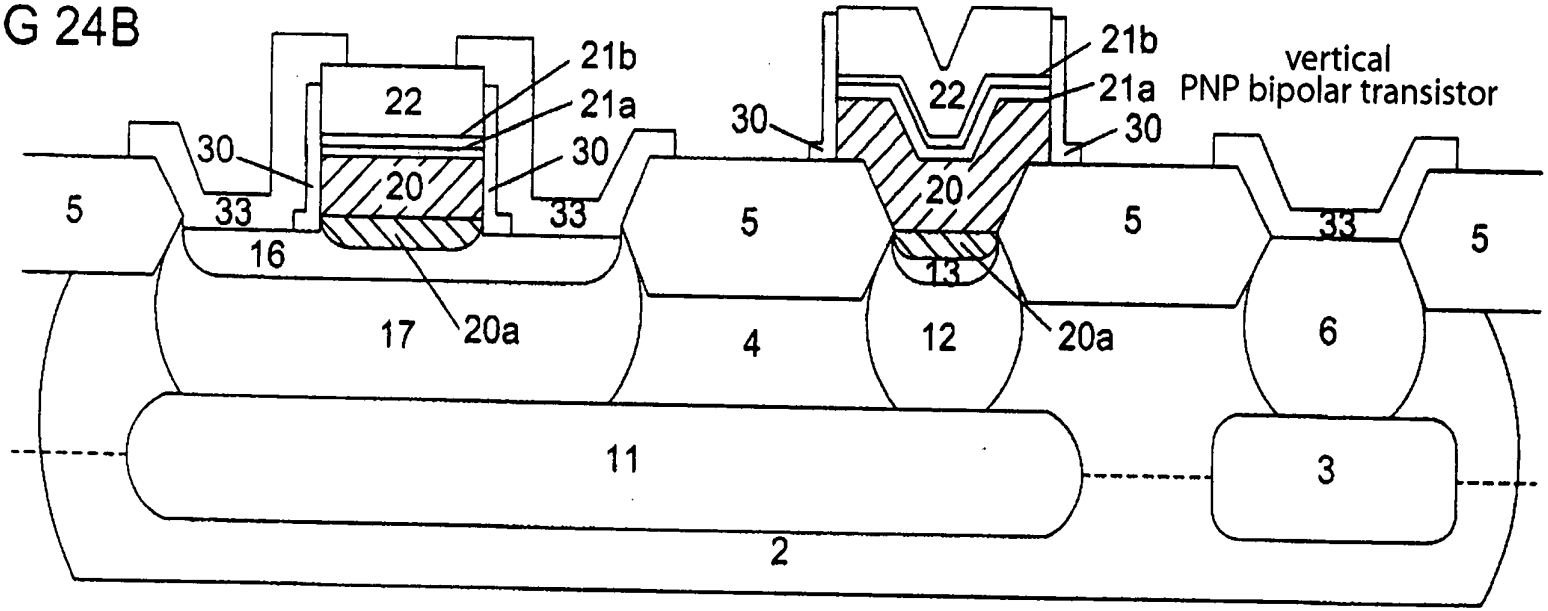


FIG 24C

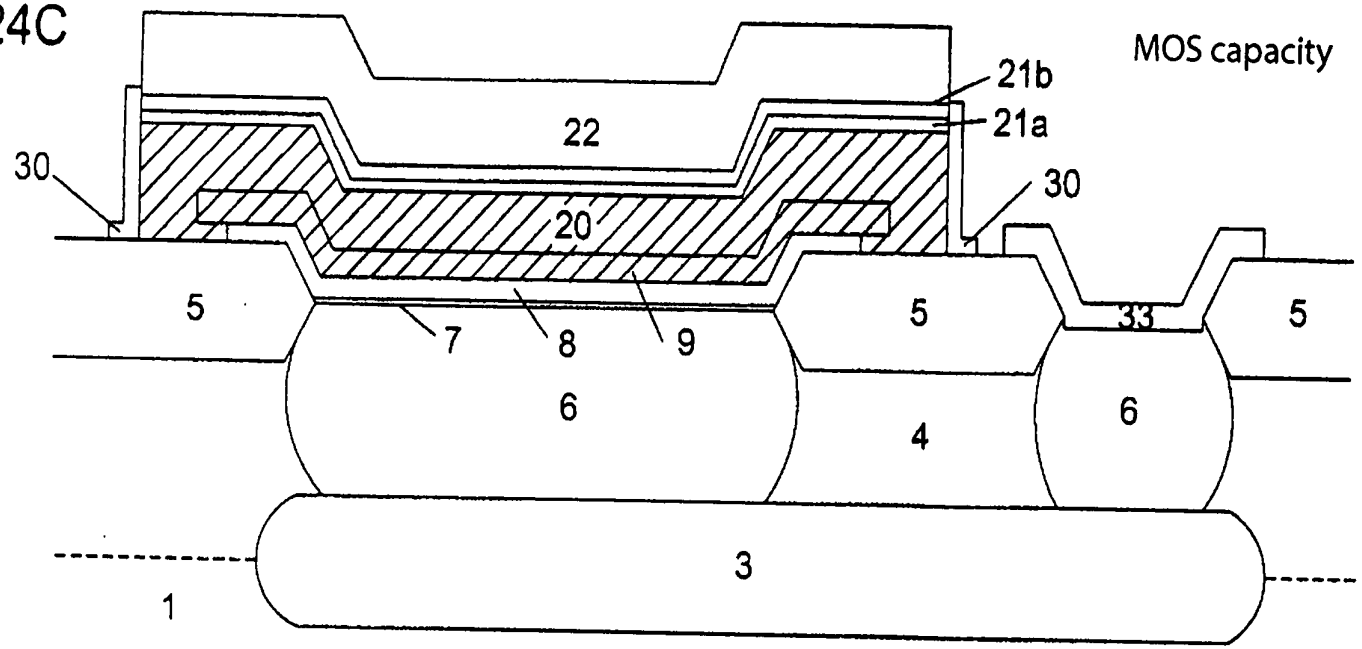


FIG 24D

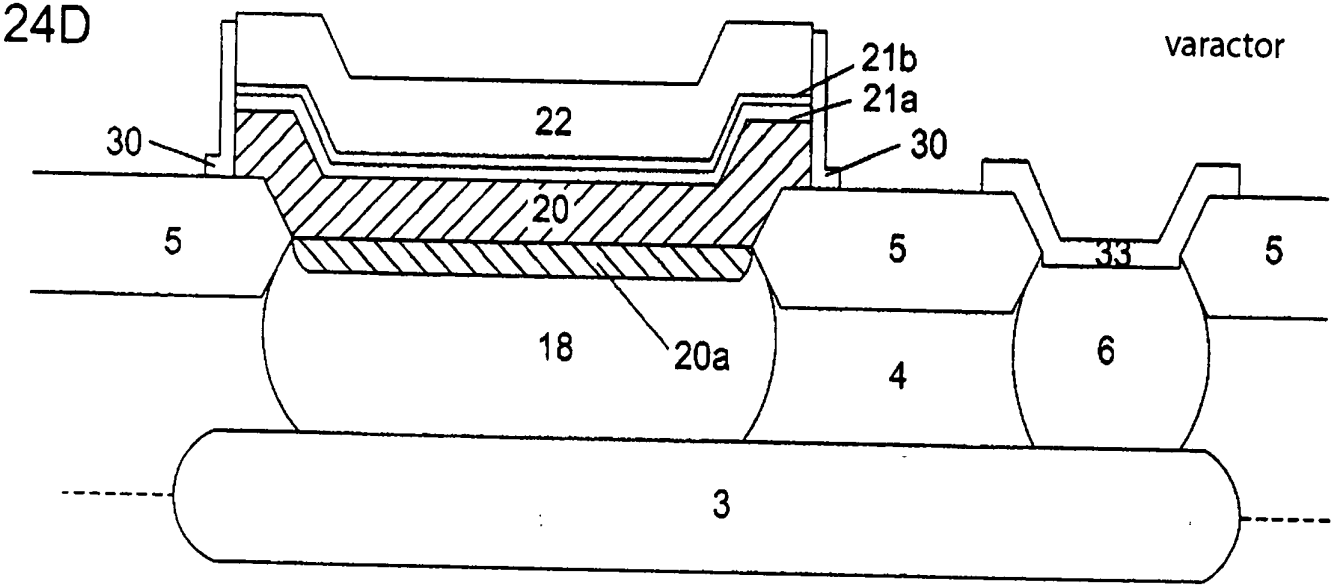


FIG 25

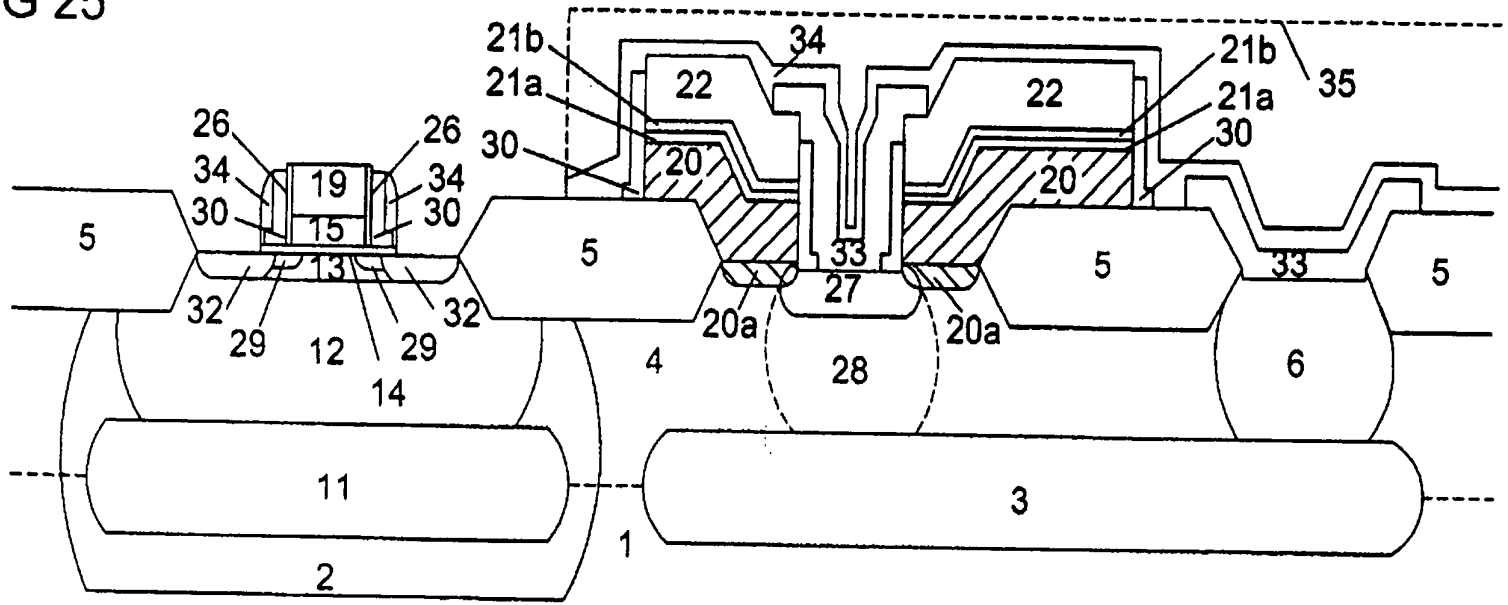
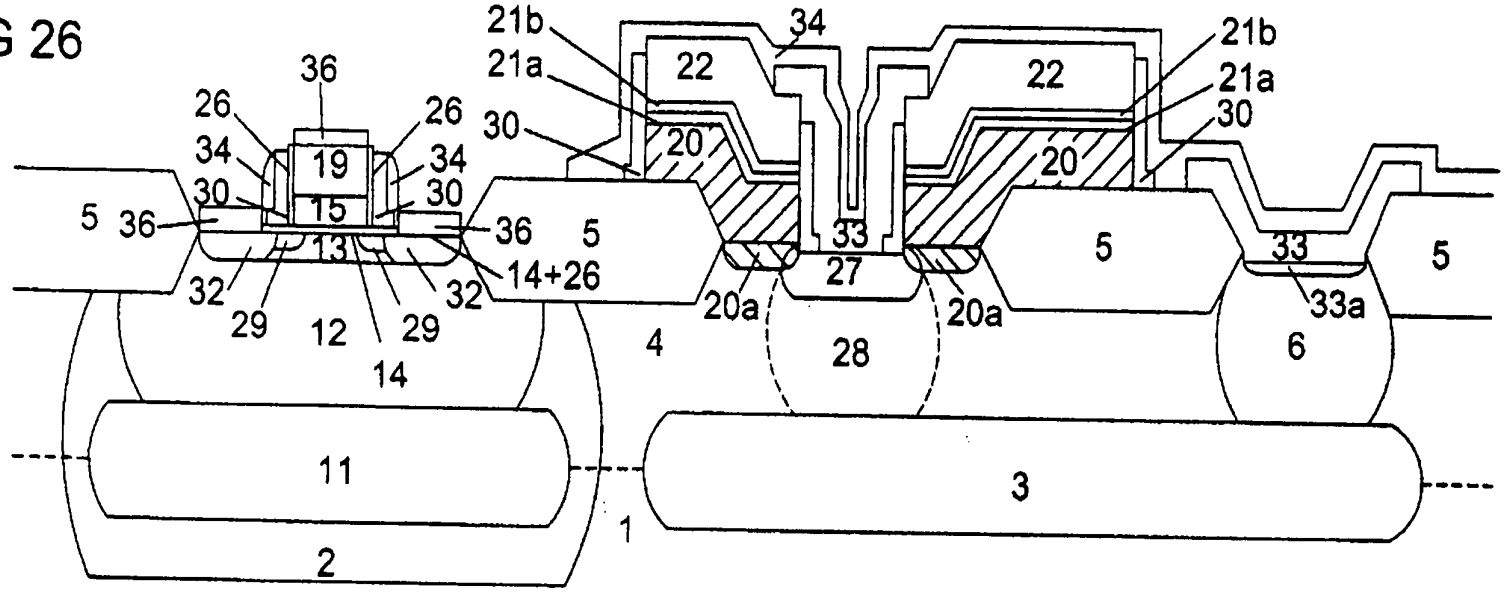

21b
21a
30
34
22
22
21b
21a
30
35
26
26
34
34
30
30
19
15
20
20
5
5
5
5
33
33
13
27
32
32
29
29
12
14
20a
20a
4
28
6
11
3
1
2

FIG 26


21b
21a
30
34
22
22
21b
21a
30
36
26
26
34
34
30
30
19
15
20
20
5
36
36
5
5
5
33
33
13
27
14+26
32
32
29
29
12
14
20a
20a
33a
4
28
6
11
3
1
2